

U.S. Department of Transportation
U.S. Coast Guard
LOCAL NOTICE TO
MARINERS



JULY WEEKLY SUPPLEMENT

NOTICE NUMBER 28/00

July 11, 2000

Boating Safety Classes or Information: 1-800-336-BOAT (2628)

** INTERNET ADDRESS **

<http://www.uscg.mil/d13/>

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (oan)
915 Second Avenue, Seattle, Washington 98174-1067
Telephone (206) 220-7270 FAX # (206) 220-7285

BROADCAST NOTICES TO MARINERS (BNMs)

This Local Notice to Mariners (LNM) includes information concerning waterways in the Thirteenth Coast Guard District promulgated by the following broadcasts:
BNM 0505-00 to 0519-00

LIGHT LIST REFERENCE: COMDTINST M16502.6, Light List Volume VI, 1999 Edition

I. SPECIAL

33 CFR PART 165- FINAL RULE

165.1310 STRAIT OF JUAN DE FUCA AND ADJACENT COASTAL WATERS OF NORTHWEST WASHINGTON – Makah Whale Hunting – Regulated Navigation Area - SEE (LNM) 27/00 FOR SPECIFIC DETAILS. A copy of this LNM can be obtained by the use of our internet address.

ALASKA - PACIFIC OCEAN - HIGH SEAS DRIFTNET (HSDN) ACTIVITY

SEE (LNM) 27/00 FOR SPECIFIC DETAILS. A copy of this LNM can be obtained by the use of our internet address.

WASHINGTON – PUGET SOUND – SOUND SIGNALS -

The Coast Guard has discovered that certain models of fog detectors may not activate the sound signal if a failure of the fog detectors occurs. SEE (LNM) 27/00 FOR SPECIFIC SOUND SIGNALS. A copy of this LNM can be obtained by the use of our internet address on page one.

WASHINGTON - WASHINGTON – DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) – Off Air –

Mariners are urged to use other means of navigation during the following DGPS off air date/times:

DGPS Site	Freq.	Primary Date	Local Time	Alternate Date	Local Time
Robinson Point	323 khz	31 July 00	1130 to 1330	01 August 00	1130 to 1330

OREGON – YAQUINA BAY TO COLUMBIA RIVER – Undersea Cable Hazard –

An undersea cable is partially unburied and suspended off the sea floor within an area bound by the following approximate positions:

45°31'N 125°20'W 45°29'N 125°20'W 45°31'N 124°42'W 45°29'N 124°42'W

Mariners are advised that fishing activity in this area may result in damage to and or loss of fishing gear.

Chart 18520

OREGON – CAPE SEBASTIAN TO HUMBUG MOUNTAIN – ROGUE RIVER – Oceanographic Equipment –

Two subsurface oceanographic moorings have been deployed in the vicinity of Gold Beach, Oregon, at the following locations/depths:

42°26.58'N 124°34.39'W

42°26.49'N 124°34.47'W

bottom depth = 41 fathoms

bottom depth = 41 fathoms

depth to top of mooring = 40.5 fathoms

depth to top of mooring = 9 fathoms

Mariners are advised that fishing activity in this area may result in damage to and or loss of fishing gear.

Chart 18601

OREGON – COLUMBIA RIVER – ASTORIA – Potential Navigation Hazard -

The Astoria Mooring Basin east breakwater at the west mooring basin has breached. An orange buoy has been placed approximately ten feet north of the breakwater. Mariners are advised to stay clear of the east breakwater and marker buoy.

Chart 18521

I. SPECIAL (continued)

WASHINGTON – PUGET SOUND NORTHERN PART – Current Meter Survey –

Nine Sensors will be deployed on July 10, 2000, seven of which will form a line running east to west from Edwards Point to Appletree Point. Only one of these sensors will be on the surface and be located in the Traffic Separation Zone, the others will sit on the bottom. The two additional sensors will be located at the south entrance to Possession Sound and off Point No Point in Admiralty Inlet in the Traffic Separation Zone. The Possession Sound sensor will be on the surface. These moorings will remain in place for one month then be re-deployed. The six bottom mounted instruments will change positions throughout the one year project. The two surface sensors, and the sensor off Point No Point in Admiralty Inlet will maintain the same positions for the one year project duration. The two surface sensors will be lighted. Approximate sensor positions are:

47°49.250'N 122°28.700'W Bottom	47°46.720'N 122°26.672'W Bottom	47°49.250'N 122°26.180'W Bottom	47°49.250'N 122°23.570'W Bottom
47°49.250'N 122°27.420'W Bottom	47°55.854'N 122°30.532'W Bottom	47°49.250'N 122°24.690'W Bottom	47°54.388'N 122°20.905'W Surface
47°46.720'N 122°26.531'W Surface			

Chart 18440

WASHINGTON – CANADIAN DEPARTMENT OF FISHERIES AND OCEANS - STRAIT OF JUAN DE FUCA – Research Moorings Deployment – (Revised)

The Canadian Department of Fisheries and Oceans have installed sub-surface moorings for oceanographic research at the following locations:

<u>Moorings Position:</u>	<u>Depth Below Surface:</u>	<u>Date of Removal:</u>	<u>Moorings Position:</u>	<u>Depth Below Surface:</u>	<u>Date of Removal:</u>
48°23'05"N 124°20'20"W	12 Meters	31 October 2000	48°15'05"N 124°09'47"W	20 Meters	31 October 2000
48°24'47"N 124°09'56"W	20 Meters	31 October 2000	48°17'06"N 123°58'43"W	12 Meters	31 October 2000
48°21'14"N 124°12'16"W	180 Meters	31 October 2000			

Chart 18480

OREGON – WASHINGTON – COLUMBIA RIVER – Bridge Information – Interstate 5 bridges between Vancouver and Portland at mile 106.5 –

The vertical lift spans are authorized to be closed for painting from July 15 to September 15, 2000. This is a continuation of the painting of the lift towers that began last summer. The closure is contingent upon the river level remaining at or below 6 feet for the daily mean (Columbia River Datum). The Coast Guard published a temporary final rule in the Federal Register on June 23, 2000 (65FR39107). A copy of this notice may be obtained by calling Austin Pratt at (206) 220-7282.

Charts 18524, 18526

OREGON – WILLAMETTE RIVER – Bridge Information –

The draw of the following bridges need not open for the passage of vessels on the dates and times listed:

<u>Bridge Name</u>	<u>Date</u>	<u>Local Times</u>	<u>Bridge Name</u>	<u>Date</u>	<u>Local Times</u>	<u>Bridge Name</u>	<u>Date</u>	<u>Local Times</u>
Broadway	23 July 00	0700 to 1000	Burnside	28 July 00	1130 to 1200	Hawthorne	13 August 00	0630 to 1030
13 August 00	0700 to 1230		13 August 00	0700 to 1030				

Chart 18526

WASHINGTON – GRAYS HARBOR – Wishkah River – Bridge Information –

The draw of the Heron Street (River Mile 0.2) & Wishkah Street (River Mile 0.4) bridges need not open for the passage of vessels on the dates and times listed:

<u>Start Date</u>	<u>Time</u>	<u>End Date</u>	<u>Time</u>
24 July 00	1800	to	18 August 00 0500
21 August 00	0500	to	01 September 00 2000

Chart 18502

OREGON – WILLAMETTE RIVER – BURLINGTON NORTHERN SANTA FE RAILROAD BRIDGE – Bridge Information –

A survey indicates that the water depth in the vicinity of the center span of the Burlington Northern Santa Fe Railroad Bridge at river mile 6.9 may be less than charted. The water depth in position 45 34.9'N, 122 44.8'W is reported to be approximately 39.1 feet from Columbia River DATUM zero; however, lesser depths have been reported in the vicinity. Instrument error is reported as approximately plus or minus 0.5 feet. Mariners are urged to use caution when transiting this area.

Chart 18528

WASHINGTON – SNAKE RIVER – Bridge Lighting –

Lighting discrepancies have been reported on the following bridges:

The Highway 12 Bridge at mile 2.2 -Several downstream red pier lights and the downstream topmost white center of channel light are reported extinguished.

The Burlington Northern Railroad Bridge at mile 1.5 -The downstream green center of channel light is reported extinguished.

OREGON – WASHINGTON – COLUMBIA RIVER – Silting Report –

The Army Corps of Engineers (ACOE) have commenced dredging in the Columbia River. Mariners are advised that the following areas have some silting: EXPLANATION OF SILTING LOCATIONS: (River Mile 67 + 10 to 67 + 50) Indicates that 1 to 2 feet of silting has occurred on the Washington side of the river starting 10 feet upriver from River Mile 67 and ending 50 feet upriver from River Mile 67 for a total of 40 feet of reduced channel depth.

<u>AREA</u>	<u>LOCATION</u>
Slaughters Channel	(River Mile 67 + 10 to 67 + 50) Washington side
Brooks	(River Mile 29 + 45 to 30 + 15) Oregon side
Miller Sands	(River Mile 21 + 28 to 21 + 42) Oregon side & (River Mile 22 + 12 to 22 + 20) Washington side & (River Mile 23 + 30 to 23 + 50) Oregon side

These areas are silting to the point where they are reducing the channel depth by 1 to 2 feet.

Charts 18523 and 18524

I. SPECIAL (continued)**COLUMBIA RIVER ENTRANCE – COOS BAY ENTRANCE - Dredging Operations –**

Dredging operations are being conducted by the Hopper Dredge DODGE ISLAND and Survey Vessel MIAMI RIVER and will continue through 30 November 2000 at the following locations:

AREA	MATERIAL PLACEMENT
Columbia River Entrance & Columbia River	Disposal Area E-2
Coos Bay Entrance	Disposal Area F-NS-00
Coos Bay Entrance	Disposal Area F-1-00
Dredging operations will be 7 days per week, 24 hours a day. The Dredge and Survey Vessel will monitor VHF channels 13 & 16.	

II. DISCREPANCIES - DISCREPANCIES CORRECTED

THE FOLLOWING AIDS TO NAVIGATION ARE NOT WATCHING AS ADVERTISED IN THE LIGHT LIST VOLUME VI, THIRTEENTH DISTRICT SECTION:

Highlighted text denotes new discrepancy since last LNM.

NOTE: Mariners are cautioned that portions of missing structures may remain.

FEDERAL AIDS

<i>LL #</i>	<i>Aid Name</i>	<i>Status</i>	<i>Chart</i>	<i>BNM</i>	<i>LNM</i>
635	HECETA HEAD LIGHT	MAIN LT EXTINGUISHED	18580	0452-00	23/00
		EMERGENCY LIGHT OPERATIONAL			
<u>760</u>	<u>CAPE FLATTERY LIGHT</u>	<u>IMPROPER CHARACTERISTIC</u>	<u>18460</u>	<u>0513-00</u>	<u>28/00</u>
15187	WILLAPA BAY ENTRANCE BUOY D	MISSING	18504	0453-00	23/00
15735	GRAYS HBR N CHNL RANGE D FRONT LT	DESTROYED	18502	1071-99	50/99
16165	NEAH BAY INNER DBN 4	MISSING	18484	0329-00	15/00

PRIVATE AIDS

<i>LL #</i>	<i>Aid Name</i>	<i>Status</i>	<i>Chart</i>	<i>BNM</i>	<i>LNM</i>
18470	GEDNEY ISLAND FISH REEF BUOY A	MISSING	18444	0107-99	05/99
19377	HUNTER BAY AQUACULTURE LB (2)	MISSING	18429	0949-99	46/99

FEDERAL AIDS

THE FOLLOWING AIDS TO NAVIGATION DISCREPANCIES HAVE BEEN CORRECTED SINCE THE LAST LOCAL NOTICE TO MARINERS:

<i>LL #</i>	<i>Aid Name</i>	<i>Status</i>	<i>Chart</i>	<i>BNM</i>	<i>LNM</i>
NONE					

PRIVATE AIDS

<i>LL #</i>	<i>Aid Name</i>	<i>Status</i>	<i>Chart</i>	<i>BNM</i>	<i>LNM</i>
18050	ORCHARDS ROCKS FISH PEN LTS (3)	WATCHING PROPERLY	18449	0519-00	26/00

III. TEMPORARY CHANGES - TEMPORARY CHANGES CORRECTED

THE FOLLOWING AIDS TO NAVIGATION HAVE BEEN TEMPORARILY CHANGED:

<i>LL #</i>	<i>Aid Name</i>	<i>Status</i>	<i>Chart</i>	<i>BNM</i>	<i>LNM</i>
<u>9155</u>	<u>COOS BAY SOUTH SLOUGH BUOY 6</u>	<u>DISCONTINUED FOR DREDGING</u>	<u>18587</u>	<u>0332-00</u>	<u>15/00</u>
9825	TILLAMOOK ENTRANCE FRONT RANGE LT	DISCONTINUED	18558	0270-99	11/99
9830	TILLAMOOK ENTRANCE REAR RANGE LT	DISCONTINUED	18558	0270-99	11/99
9830	TILLAMOOK ENTRANCE REAR RANGE LT	SECTOR LIGHT	18558	0769-99	35/99
16165	NEAH BAY INNER DAYBEACON 4	TRUB	18484	0336-00	15/00
17159	COMMENCEMENT BAY DIRECTION LT	DISCONTINUED	18453	0498-00	27/00
10190	HARRINGTON PT CHNL LB 54	RELOCATED FOR DREDGING	18521	0491-00	27/00

IV. CHART CORRECTIONS

Corrective action affecting charts is contained in this section. Chart corrections are listed numerically by chart number. The correction listed pertains to that chart only. It is up to the mariner to decide what charts are to be corrected. The following example explains the individual elements of a typical correction.

Chart number	Chart edition	Edition date	Last Local Notice to Mariners	Horizontal Datum	Source of Correction	Current Local Notice to Mariners
18427	19th Ed.	3/27/99	Last LNM 01/97	NAD 83	(CGD13)(NOS SIVLER SPRINGS) or ((CGD13))02/97	
WA - FRANKLIN LAKE - PROTECTION WATERWAY - SHELTER HARBOR -						
Add	Safe Channel Light "2", Fl R 4s		15FT 4M		47°48'30"N 122°15'00"W	
Corrective action	Object of corrective action				Position	

The letter (M) immediately following the chart number indicates that the correction should be applied to the metric side of the chart only. (Temp) indicates that the chart correction action is temporary in nature. Courses and bearings are given in degrees clockwise from 000 true. Bearings of light sectors are toward the light from seaward. The nominal range of lights is expressed in nautical miles.

The Dates of Latest Editions, Nautical Charts and Miscellaneous Maps, dated July 1, 2000, published by the National Ocean Service, is available for issue. It may be obtained free from the Distribution Division, N/ACC3, National Ocean Service, 6501 Lafayette Avenue, Riverdale, MD, 20737-1199. This is a quarterly publication listing the most recent editions of nautical charts, miscellaneous maps and publications relating to navigation, weather, etc. with brief descriptions and up-to-date prices for most of the publications listed.

IV. CHART CORRECTIONS (continued)

18440	24th ed.	07/31/1999	LAST LNM : 26/00	NAD 83		
(CGD13)28/00						
WA - PUGET SOUND						
ADD	Possession Sound Research Buoy	W Or, Fl Y 4s (Priv)		at	47°54'23.3"N	122°20'54.3"W
	Puget Sound Reference Research Buoy, W Or, Fl Y 4s (Priv)			at	47°46'43.2"N	122°26'31.8"W
18441	40th ed.	08/07/1999	LAST LNM : 26/00	NAD 83		(CGD13)28/00

WA - PUGET SOUND- ADMIRALTY INLET AND PUGET SOUND TO SEATTLE					
ADD	Possession Sound Research Buoy W Or, Fl Y 4s (Priv)	at	47°54'23.3"N	122°20'54.3"W	
	Puget Sound Reference Research Buoy, W Or, Fl Y 4s (Priv)	at	47°46'43.2"N	122°26'31.8"W	
18445	28th ed. 06/26/1999 LAST LNM : 07/00 NAD 83				(CGD13)28/00
WA - PUGET SOUND - POSSESSION SOUND TO OLYMPIA INCLUDING HOOD CANAL					
ADD	Possession Sound Research Buoy W Or, Fl Y 4s (Priv)	at	47°54'23.3"N	122°20'54.3"W	
	Puget Sound Reference Research Buoy, W Or, Fl Y 4s (Priv)	at	47°46'43.2"N	122°26'31.8"W	
18446	15th ed. 04/18/1998 LAST LNM : 04/00 NAD 83				(CGD13)28/00
WA - PUGET SOUND - APPLE COVE POINT TO KEYPORT					
ADD	Puget Sound Reference Research Buoy, W Or, Fl Y 4s (Priv)	at	47°46'43.2"N	122°26'31.8"W	
18473	6th ed.09/27/1997 LAST LNM : 07/00 NAD 83				(CGD13)28/00
WA - PUGET SOUND - OAK BAY TO SHILSHOLE BAY					
ADD	Possession Sound Research Buoy W Or, Fl Y 4s (Priv)	at	47°54'23.3"N	122°20'54.3"W	
	Puget Sound Reference Research Buoy, W Or, Fl Y 4s (Priv)	at	47°46'43.2"N	122°26'31.8"W	
18521	67th ed. 11/06/1999 LAST LNM : 26/00 NAD 83				(NOS NW-3270)28/00
OR-WA-COLUMBIA RIVER-PACIFIC OCEAN TO HARRINGTON POINT-ILWACO HARBOR					
ADD	Controlling Depth for Columbia River - Entrance to Miller Sands (See page 6)	centered at	46°07'54.0"N	123°45'55.0"W	
18524	32nd ed. 01/01/2000 LAST LNM : 26/00 NAD 83				(NOS NW-3210)28/00
OR-WA-COLUMBIA RIVER CRIMS ISLAND TO SAINT HELENS					
ADD	Black double dashed lines, buff tint and label:	from	46°08'42.5"N	122°54'45.8"W	
	Bridge under construction	to	46°08'43.8"N	122°54'55.6"W	
	Magenta screen extending 500 feet from bridge	centered at	46°08'43.0"N	122°54'51.0"W	
DELETE	Lift Bridge and Note: LIFT BRIDGE, HOR CL 100 FT, VER CL 70 FT UP VER CL 28 FT DOWN	centered at	46°08'43.0"N	122°54'51.0"W	
18525	32nd ed. 01/22/2000 LAST LNM : 26/00 NAD 83				(NOS NW-3175)28/00
OR-WA-WEST COAST-COLUMBIA RIVER-SAINT HELENS TO VANCOUVER					
CHANGE	depth legend to: 5 FT MID 150 FT MAR 2000	at	45°36'06.1"N	122°38'41.9"W	
	depth legend to: 17 FT MAR 2000	at	45°36'59.0"N	122°39'56.6"W	
DELETE	32 ft sounding	at	45°37'12.8"N	122°47'17.8"W	
REPLACE	4 ft sounding for 5 ft	at	45°38'47.6"N	122°46'21.6"W	
REPLACE	40 ft sounding for 44 ft	at	45°39'04.2"N	122°46'04.1"W	
18526	54th ed. 01/22/2000 LAST LNM : 26/00 NAD 83				(NOS NW-3175)28/00
OR - PORT OF PORTLAND, INCLUDING VANCOUVER					
CHANGE	depth legend to: 5 FT MID 150 FT MAR 2000	at	45°36'06.1"N	122°38'41.9"W	
	bridge note to: MORRISON BASCULE BRIDGE, HOR CL 209 FT, HOR CL 185 FT (OPEN) VERT CL 69 FT	at	45°31'04.0"N	122°40'11.2"W	
	depth legend to: 17 FT MAR 2000	at	45°36'59.0"N	122°39'56.6"W	
18528	9th ed.10/25/1997 LAST LNM : 10/00 NAD 83 (SIDE A)				(NOS NW-3201)28/00
OR - WILLAMETTE RIVER - PORTLAND TO WALNUT EDDY					
CHANGE	Breakwater to Submerged Ruins with label: Subm Ruins	from	45°26'28.5"N	122°38'35.7"W	
		to	45°26'28.4"N	122°38'36.7"W	
		to	45°26'30.0"N	122°38'37.6"W	
		to	45°26'30.5"N	122°38'35.8"W	
		to	45°26'36.7"N	122°38'39.5"W	
18531	19th ed. 07/04/1998 LAST LNM : 26/00 NAD 83				(NOS NW-3176)28/00
OR & WA - COLUMBIA RIVER - VANCOUVER TO BONNEVILLE					
CHANGE	depth legend to: 5 FT FOR 150 FT MAR 2000	at	45°36'07.8"N	122°38'23.4"W	
	depth legend to: 17 FT MAR 2000	at	45°36'52.0"N	122°39'33.0"W	

IV. CHART CORRECTIONS (continued)

18535	11th ed. 08/11/1990 LAST LNM : 22/98 NAD 83				(CGD13)28/00
(Temp)	OR & WA - COLUMBIA RIVER - JOHN DAY DAM TO BLALOCK				
ADD	Lake Celilo Temporary Buoy "46A"	at	45°42'26.9"N	120°43'22.1"W	
18581	16th ed. 05/22/1999 LAST LNM : 23/00 NAD 83				(NOS NW-3316)28/00
OR - YAQUINA BAY AND RIVER					
ADD	Controlling Depth for Yaquina Bay and River Channel Depths (See page 6)	centered at	44°38'33.0"N	124°02'23.0"W	

18584	46th ed.	07/19/1997	LAST LNM : 23/00	NAD 83					(NOS NW-3117)28/00
OR - UMPQUA RIVER - PACIFIC OCEAN TO REEDSPORT									
ADD	Controlling Depth for Umpqua River (See page 7)				centered at	43°39'36.8"N	124°07'15.5"W		
	15 ft sounding				at	43°40'12.2"N	124°12'08.5"W		
	21 ft sounding				at	43°40'04.0"N	124°12'48.1"W		
REPLACE	26 ft sounding for 30 ft				at	43°40'03.5"N	124°13'18.8"W		
ADD	24 ft sounding				at	43°40'03.6"N	124°13'25.1"W		
	26 ft sounding				at	43°40'02.0"N	124°12'57.7"W		
	35 ft sounding				at	43°40'02.6"N	124°12'39.9"W		
	28 ft sounding				at	43°40'01.1"N	124°13'18.9"W		
	26 ft sounding				at	43°40'03.5"N	124°13'06.3"W		
	30 ft sounding				at	43°40'01.3"N	124°13'00.4"W		
REPLACE	25 ft sounding for 33 ft				at	43°40'04.5"N	124°12'38.1"W		
ADD	32 ft sounding for 40 ft				at	43°40'02.3"N	124°12'45.8"W		
18587	67th ed.	08/11/1997	LAST LNM : 26/00	NAD 83					(NOS NW-3344)28/00
OR - COOS BAY									
ADD	Controlling Depth for Coos Bay and Isthmus Slough (See page 7)				centered at	43°22'51.0"N	124°15'07.0"W		
18601	13th ed.	09/12/1998	LAST LNM : 20/00	NAD 83					(NOS NW-3159)28/00
OR - CAPE SEBASTIAN TO HUMBUG MT									
ADD	Channel separator (solid magenta line)				from	42°25'30.2"N	124°25'13.9"W	to	42°25'31.4"N 124°25'12.9"W
18602	11th ed.	09/12/1998	LAST LNM : 05/00	NAD 83					(NOS NW-3156)28/00
OR - CA - Pyramid Point to Cape Sebastian									
CHANGE	Depth legend to: 8 FT FOR MID-WIDTH OF 100 FT APR 2000				at	42°02'34.0"N	124°16'20.0"W		

V. ADVANCE NOTICE OF CHANGES IN AIDS TO NAVIGATION
 NONE

VI. PROPOSED CHANGES IN AIDS TO NAVIGATION
Comments are requested on or before July 28, 2000 Attn: Mr. John Barberi
OREGON – APPROACHES TO YAQUINA AND DEPOE BAY – Tillamook Bay – Light Information –
 The Coast Guard proposes that Tillamook Bay Entrance Direction Light (LLNR 9830) be made permanent.
 Chart 18558
COLUMBIA RIVER – CRIMS ISLAND TO ST. HELENS – Longview – Daybeacon Information –
 The Coast Guard proposes to discontinue Slaughters Dike Daybeacon 20A (LLNR 10795). The daybeacon is no longer considered necessary for safe navigation in the area.
 Chart 18524

VII. GENERAL
 REFER TO LOCAL NOTICE TO MARINERS 27/00 FOR CURRENT INFORMATION.

VIII. CORRECTIONS TO THE LIGHT LIST, VOLUME VI; PACIFIC COAST AND PACIFIC ISLANDS 1999:
 An asterisk *, indicates the column in which a correction has been made or new information added.

(1) No.	(2) Name and location	(3) Position	(4) Characteristic	(5) Ht	(6) Rng	(7) Structure	(8) Remarks	
Puget Sound								
16740	- Reference Research Buoy	47 46.7 122 26.5	Fl Y 4s			White and orange buoy.	Private aid.	
*	*	*	*	*	*	*	*	28/00
Possession Sound								
18475	- Research Buoy	47 54.4 122 20.9	Fl Y 4s			White and orange buoy.	Private aid.	
*	*	*	*	*	*	*	*	28/00

IX. ADDITIONAL ENCLOSURES:
 NONE

If you have any questions, comments, or need additional information concerning this or other LNMs or the LNM Mailing List (e.g. additions, deletions, corrections) contact the address or phone number on the front page.

G. F. GREENE
 Captain, U.S. Coast Guard
 Chief, Aids to Navigation & Waterways Management Branch
 Thirteenth Coast Guard District
 By direction of the District Commander

CHART 18521

COLUMBIA RIVER CHANNEL DEPTHS ENTRANCE TO MILLER SANDS RANGE TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000								
* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
ENTRANCE RANGE	58	57	55	42	10-99	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	54	55	55	46	10-99	2640	2.2	48
LOWER DESDEMONA SHOAL	45	45	44	37	5-99; 1-00	600	3.4	40
UPPER DESDEMONA SHOAL	37	43	47	46	1-00	600	3.7	40
TANSY POINT TURN AND RANGE	39	40	40	36	5-00	600	4.7	40
ASTORIA RANGE	39	39	39	40	5-00	600	2.7	40
TONGUE POINT CHANNEL	38	41	42	42	5-00	600	2.2	40
HARRINGTON POINT RANGE	35	40	40	36	4, 5-00	600	2.6	40
MILLER SANDS RANGE	34	43	41	35	4-00	600	2.2	40
* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

CHART 18581

YAKUINA BAY AND RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL ENTRANCE 44°36'23"N, 124°05'24"W							
TO FIRST TURN	25	30	25	5-00	400-300	1.3	40-30
THENCE TO TURNING BASIN	21	29	18	6-99; 4-00	300-400	1.3	30
TURNING BASIN	15	24	24	4-00	300-1200	0.3	30
THENCE TO YAKUINA	15	12	12	7-98	200	1.6	18
THENCE TO END OF PROJECT	02A	07	05B	7-98	150	9.7	10
A. SHOAL TO BARE AT 44°36'57.7"N, 123°56'34.2"W. B. SHOAL TO BARE AT 44°36'42.0"N, 123°56'55.5"W. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

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UMPOUA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2000 AND SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL TO LT. 21	16	18	17	9-99; 5-00	200	7.0	26-22
LT 21 TO REEDSPORT	19	19	18	5-00	200	2.7	22
REEDSPORT TURNING BASIN	25	23	23	5-00	600	0.2	22
LT. 21 TO GARDINER	15	13	11	5-00	200	1.15	22
TURNING BASIN	3	2	2	9-98; 5, 9-99	500	0.2	22
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	38	36	9-98;4-00	---	1.9	47-37
ENTRANCE RANGE AND TURN	38	45	33	9-99	300-1050	0.6	37
INSIDE RANGE	33	39	34	9-99	300	0.6	37
COOS BAY RANGE	34	35	35	9-99;5-00	300	1.6	37
EMPIRE RANGE	35	35	35	5-00	300	1.3	37
LOWER JARVIS RANGE	36	36	33	5-00	300	0.8	37
JARVIS TURN	36	36	32	5-00	300	0.5	37
UPPER JARVIS RANGE	35	35	34	9-99;5-00	300	1.9	37
NORTH BEND LOWER RANGE	37	39	37	3-00	400	0.7	37
NORTH BEND RANGE	38	38	37	5-99	400	0.9	37
NORTH BEND UPPER RANGE	36	37	36	5-99	400	0.6	37
LOWER TURNING BASIN	37	37	32	10-99	400-800	0.3	37
FERNDAL LOWER RANGE	34	39	38	3-00	400	0.4	37
FERNDAL TURN	34	38	37	3-00	400	0.2	37
FERNDAL UPPER RANGE	32	37	37	3-00	400	0.7	37
MARSHFIELD RANGE	30	37	36	3-00	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	36	37	38	3-00	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							